

Pacific Islands - Online Climate Outlook Forum (OCOF) No.71

Country Name: FIJI

TABLE 1: Monthly Rainfall

Station (data period)			JULY 2013				
	MAY 2013 Total	JUNE 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2013)	129.5	103.0	61.5	25.6	57.5	38.0	72/104
Lautoka Mill (1900-2013)	197.2	138.6	9.7	21.8	60.5	41.1	22/114
Nadi Airport (1942-2013)	116.5	124.9	6.3	19.1	66.5	35.1	15/72
Yasawa-I-Rara (1950-2013)	160.4	43.0	54.4	21.5	51.2	34.0	43/60
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	143.7	141.2	238.3	87.2	158.5	120.7	61/72
Nausori Airport (1957-2013)	132.2	219.7	273.3	96.5	135.0	122.1	55/57
Tokotoko (Navua) (1945-2013)	114.9	361.7	273.0	147.1	213.5	184.6	55/69
<i>Eastern Division</i>							
Lakeba (1950-2013)	49.8	78.8	188.4	48.4	88.9	57.5	61/63
Vunisea (Kadavu) (1931-2013)	Missing	123.8	89.4	80.8	124.9	95.7	34/77
Ono-I-Lau (1943-2013)	82.1	78.0	56.2	58.3	117.1	70.7	22/67
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	70.9	82.4	33.2	23.3	58.1	33.8	28/58
Nabouwalu (1918-2013)	177.8	153.9	107.3	52.1	103.5	79.7	67/95
Rotuma (1912-2013)	342.2	208.2	Missing	179.0	255.0	215.5	23/100

May to July 2013
Predictor: SST 1 & 9 (January to March 2013)

Station	Three-month Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecasted probs.* (include LEPS)	Verification* (Consistent, Near-consistent, Inconsistent?)
Western Division							
Penang Mill (1910-2013)	294.0	179.0	297.9	250.9	68/104	36:29:35 (9.0)	Near-consistent
Lautoka Mill (1900-2013)	345.5	152.7	235.1	196.1	103/114	34: 38:28 (16.3)	Near-consistent
Nadi Airport (1942-2013)	247.7	141.7	247.2	185.0	48/71	31: 37:32 (9.3)	Near-consistent
Yasawa-I-Rara (1950-2013)	257.8	171.9	276.5	230.8	37/60	33:27: 40 (15.6)	Near-consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	523.2	439.9	613.2	506.1	38/72	42:34:24 (12.9)	Near-consistent
Nausori Airport (1957-2013)	625.2	432.3	583.8	516.8	43/57	31: 41:28 (14.2)	Near-consistent
Tokotoko (Navua) (1945-2013)	749.6	581.5	782.0	661.8	45/69	44:33:23 (14.1)	Near-consistent
Eastern Division							
Lakeba (1950-2013)	317.0	257.8	369.1	323.6	30/63	27:33: 40 (19.5)	Near-consistent
Vunisea (Kadavu) (1931-2013)	MISSING MAY OBSERVATION						
Ono-I-Lau (1943-2013)	216.3	237.4	374.6	311.6	18/63	40:27:33 (5.7)	Consistent
Northern Division							
Labasa Airfield (1956-2013)	186.5	173.2	275.2	219.5	24/57	32: 34:34 (21.0)	Near Consistent
Nabouwalu (1918-2013)	439.0	319.5	444.3	561.4	63/95	28: 37:35 (18.3)	Consistent
Rotuma (1912-2013)	MISSING JULY OBSERVATION						

Period: *below normal/normal/above normal

*below normal/normal/above normal

*Forecast is consistent when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is near-consistent when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

**TABLE 3: Seasonal Climate Outlooks using SCOPIC
for September to November 2013**

Predictors and Period used: SST 1& 9 (May to Jul 2013)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)			LEPS	Hit-rate
Western Division							
Penang Mill (1910-2013)	23	295.3	77			17.7	67.7
Lautoka Mill (1900-2013)	15	264.7	85			19.1	68.8
Nadi Airport (1942-2013)	13	296.8	87			25.6	67.2
Yasawa-I-Rara (1950-2013)	18	268.7	82			15.5	61
Central Division							
Laucala Bay (Suva) (1942-2013)	29	648.5	71			8.2	62.5
Nausori Airport(1957-2013)	23	601.5	77			10.2	57.1
Tokotoko (Navua) (1945-2013)	17	767.1	83			25.9	71.4
Eastern Division							
Lakeba (1950-2013)	36	331.2	64			3.9	53.1
Vunisea (Kadavu) (1931-2013)	14	384.9	86			23	73.4
Ono-I-Lau (1943-2013)	27	294.5	73			9.7	58.3
Northern Division							
Labasa Airfield (1956-2013)	17	311.7	83			15.1	64.2
Nabouwalu (1918-2013)	20	419.2	80			23.7	68.8
Rotuma (1912 -2013)	57	848.2	43			-1.3	48.4

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Western Division							
Penang Mill (1910-2013)	16	248.0	16	368.8	68	15.5	53.2
Lautoka Mill (1900-2013)	7	185.3	23	324.8	70	21.5	53.1
Nadi Airport (1942-2013)	6	240.9	41	342.9	53	21.1	50.0
Yasawa-I-Rara (1950-2013)	6	195.9	27	355.5	67	21.0	52.5
Central Division							
Laucala Bay (Suva) (1942-2013)	13	465.2	32	754.7	55	11.4	39.1

Nausori Airport(1957-2013)	14	445.8	40	729.4	46	6.5	32.1
Tokotoko (Navua) (1945-2013)	11	648.2	44	937.6	45	16.1	47.6
<i>Eastern Division</i>							
Lakeba (1950-2013)	22	297.6	17	409.7	61	9.1	51.6
Vunisea (Kadavu) (1931-2013)	3	309.3	34	433.7	63	24.7	53.1
Ono-I-Lau (1943-2013)	12	213.4	41	382.8	47	9.4	46.7
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	10	263.1	36	382.6	54	14.6	43.4
Nabouwalu (1918-2013)	10	352.0	36	558.0	54	17.4	46.9
Rotuma (1912 -2013)	41	726.0	27	945.8	32	-0.3	42.2

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
September to November 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi	33	178.0	34	305.0	33
Rotuma	37	723.0	23	970.0	40

Summary Statements

Rainfall for July 2013:

Lautoka and Nadi in the Western Division and Ono-I-Lau in the Eastern Division recorded *below normal* rainfall, Vunisea in the Eastern Division and Labasa Airport in the Northern Division recorded *normal* rainfall while the rest of the sites recorded *above normal* rainfall.

Accumulated rainfall for May –July 2013, including outlook verification:

During May to July 2013 period, Ono-I-Lau was the lone site that recorded *below normal* rainfall, Lautoka and Nadi in the Western Division and Nausori in the Central Division recorded *above normal* rainfall while the rest of the sites recorded *normal* rainfall.

There were no new records for the May to July period.

The SCOPIC Outlook for the period was near consistent for nine sites and Consistent for two sites. Rainfall at Vunisea and Rotuma could not be verified due to missing observations.

Outlooks for September –November 2013:

1. SCOPIC:

Above normal rainfall is favoured for all the Divisions. Rainfall at Rotuma is favoured to *be below normal*

2. POAMA:

Using POAMA model, *climatological* rainfall is favoured for Nadi Airport and *above normal* rainfall is favoured for Rotuma

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$

Exceptional: $X \geq 35$